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5. a) What is an absolute loader? Explain its role, advantages

b) What are the data structures required for linker? Write an

Self-relocating programs are less efficient than

ii) There would be no need for linker if all programs are

and disadvantages in brief.

algorithm for Ist pass linker.

relocatable program.

Explain the following terms: Linked address

ii) Load time address

iii) Linked origin

iv) Load origin

Comment on the following statements:

coded as self-relocating programs.

Total No. of Questions: 8]

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M.C.A. I Semester

Examination, November 2018

Information Technology

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- What is Data? How it is different from Information? Discuss various data processing techniques.
 - b) Explain the followings:
 - i) Application software and system software
 - ii) Storage devices
- Explain in brief the basic steps followed in the design of a two pass assembler.
 - b) What are macros? Explain various features of macros with suitable examples.
- Describe the advanced macro facilities and illustrate their
 - Briefly explain the following:
 - i) Compiler and interpreter
 - ii) Debug monitors
- 4. a) Explain code optimization. What are the ways in which code optimization can be achieved?
 - How memory allocation is done by compilers? Discuss static and dynamic memory allocation.

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What are indexed sequential files? Explain its structure. Why overflow area is required in indexed sequential files? b) Compare and contrast the given file organization

Sequential file organization

ii) Random file organization

Write short notes on the following (any four)

Inverted files

Nested macro calls

Various types of file organizations

Multi key access

Binary overlays

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PTO